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F-1 LOCAL CLAUSES EPA-F-12-101 PERIOD OF PERFORMANCE

The period of performance of this contract shall be from 09/04/2014 through 05/01/2015 inclusive of all required reports.

G-1 LOCAL CLAUSES EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

Task Order-Level Contracting Officers Representatives (CORs) for this contract are as follows:

Carol Peterson
USEPA Headquarters
William Jefferson Clinton Building
1200 Pennsylvania Avenue, N. W.
Mail Code: 4503T

Washington, DC 20460 Phone: 202-566-1304

Email: Peterson.carol@Epa.gov

Alternate:

Christine Lewicki USEPA Headquarters William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 4503T

Washington, DC 20460 Phone: 202-566-1293

Email: Lewicki.chris@Epa.gov

Contracting Officials responsible for administering this task order are as follows:

Contracting Officer: Noelle Mills** 513-487-2171 mills.noelle@epa.gov

Contract Specialist: Erin Ridder** 513-487-2155 ridder.erin@epa.gov

SECTION J - List of Documents, Exhibits and Other Attachments

Attachment Number	Attachment Title	Date	Number of Pages	
1	PWS	09/02/2014	4	
2	QAPP	09/02/2014	26	
3	TOCOR Signed Memo	09/02/2014	5	
4	ATOCOR Signed Memo	09/02/2014	5	

^{**} Primary contact shall be through FedConnect.

Performance Work Statement EP-C-12-053 Task Order 0004 Narrative Nutrient TMDLs. Part II. Translators

A. INTRODUCTION

Section 303(d) of the Clean Water Act (CWA) requires States to assess their waters and identify those that do not meet EPA approved water quality standards. Further, States are required to develop a Total Maximum Daily Load (TMDL), a pollutant budget and reduction plan, for each of waterbodies that have been placed on the water quality impairment list. States may establish water quality criteria either as a number (e.g., concentration of a pollutant) or, as is often the case with nutrients, as a narrative description. When there is no applicable numeric water quality criterion for the pollutant, the State must interpret its narrative criterion. In these instances, States must determine or calculate a level which will ensure the attainment of the narrative water quality criterion or designated use prior to determining the TMDL.

There are more than 15,000 waterbodies that are on the 3003(d) list for nutrients and nutrient-related impairments and over 7,000 TMDLs have been developed to address these impairments. In the first part of this study, an cursory assessment of all nutrient TMDLs¹ was conducted and a more detailed analysis was done for those nutrient TMDLs where the State choose to interpret its narrative criteria by deriving a numeric concentration target for either nitrogen (N) or phosphorus (P). Of the approximately 7,000 nutrient TMDLs, about 5,900 were found to be unique. Of the 5,900 N and P TMDLs, just over 2,400 were developed by selecting a numeric N or P concentration target.

B. PURPOSE

Approximately 2,100 N and P TMDLS were developed without selecting a numeric concentration target. The bulk of these nutrient loads were established either by translating a numeric target for a nutrient response variable (e.g., dissolved oxygen) or by using a reference waterbody or land use scenario approach -- approximately 1,580 TMDLs and 395 TMDLs, respectively. In the second part of this study, EPA seeks contractor support to 1) examine these load-based TMDLs, 2) examine biological oxygen demand (BOD) TMDLs and algae (including chlorophyll-a) TMDLs (two groups of nutrient TMDLs that were not included in the previous study) and 3) all nutrient or nutrient-related TMDLs submitted since Nov. 2012 (also not included in the first study). In this Task Order, the contractor is asked to examine and extract data and information from approximately 3,025 nutrient TMDLs – 1,975 load-based TMDLs (mentioned above), plus 1050 BOD or algal- based TMDLs, plus the few nutrient or nutrient-related TMDLs that have been submitted to the EPA since the first study.

Some of the requested information has already been extracted and is captured in the workbook submitted as part of the first study (Tabs 1, 3, 4 and 5). All of the TMDL reports, with the exception of the algae or most recent TMDLs, were provided to the contractor under EP-C-08-002 Task Order 33. The types of data or information required vary by type of TMDL, but generally include, ATTAINS ID, waterbody ID, waterbody name, state, waterbody type, listing cause, pollutant(s), response indicators(s), loading capacity, waste load allocation, load allocation, and method used to calculate the

¹ The contractor queried the Agency's Assessment, TMDL Tracking, and Implementation system (ATTAINS) using the parent categories, nitrogen, phosphorus, nutrients, and oxygen depletion/organic enrichment.

load. If available, the contractor shall include information related to stressor-identification, cause-and-effect linkage analysis, load duration curves and model used to derive the total load estimate.

An ATTAINS query will be needed for the algae TMDLs plus any nutrient TMDLs that have been submitted since November, 2012. If the post-November 2012 nutrient TMDL is not based on establishing a numeric N or P water quality target, analysis and data extraction shall follow that of the load-based TMDLs as described in section F. TASKS. If, however, a recent TMDL is established by calculating a numeric N or P water quality concentration target, the information shall be that from part one of the study and added to Tab 1 of the workbook.

Other information, as warranted and as described by the Task Order Contracting Officer's Representative (TOCOR), may also be requested.

C. QUALITY ASSURANCE

Cadmus shall adhere to the contract level Quality Management Plan (QMP), and the generic contract-level Quality Assurance Project Plan (QAPP) that was developed and approved for EP-C-08-002 TO 33 (attached).

D. TASKS

1.0 TMDL Review and Data Extraction

The contractor shall review all TMDL reports as described below, and create or supplement existing spreadsheets from the workbook. The existing spreadsheets are as follows:

- Tab 1. Nutrient TMDLs derived from a nutrient (N or P) water quality target.
- Tab 2. Not applicable
- Tab 3. TMDLs for oxygen demand, temperature, sediment or other non-nutrient parameter.²
- Tab 4. TMDLs with EPA-approved numeric nutrient WQ standards.
- Tab 5. TMDLs not derived from approved numeric N or P standards or calculated N or P WQ targets.

Tab 5 shall be divided and new spreadsheets created as follows: 1) TMDLs derived based on one or more response variable(s) (Tab 5); 2) load-based TMDLs based on reference waterbodies (Tab 6); and 3) the non-applicable or "other" load-based TMDLs (Tab 7). Applicable TMDLs currently captured in Tab 3, shall be transferred to Tab 5. Columns labeled "Other info." may be added to capture any unique or explanatory information.

- **1.1 Post-Nov. 2012 TMDLs.** Data shall be extracted from all the nutrient TMDLs that have been submitted to the Agency after November, 2012.
 - If the TMDL was established by calculating a numeric water quality target concentration for N or P, the data/information shall be added to Tab 1.
 - If the TMDL was established based on an approved numeric water quality criterion for N or P, the data shall be entered into Tab 4.
 - If the TMDL was established based on a numeric target of a response variable, the data shall be entered into Tab 5.

² Since the previous study Biological Oxygen Demand (BOD) has been added to the overarching term of "nutrients."

- If the TMDL was established directly from a reference waterbody (i.e., without setting an N or P WQ target), the data shall be entered into Tab 6.
- All other TMDLs shall be captured in Tab 7.
- 1.2 BOD and Algae TMDLs. The contractor shall review the TMDLs recorded in Tab 3 and transfer those that are based on biological oxygen demand (BOD). Together with the algae TMDLs the contractor shall add these TMDLs to Tab 5. The data to be extracted are described in Task 1.3. Any duplicates of other nutrient TMDLs shall be noted.
- **1.3 Load-based TMDLs translated from a numeric target of a nutrient response variable or reference waterbody**. The contractor shall continue its review the TMDLs recorded in Tab 5 and transfer those based on reference scenario to Tab 6. Those TMDLs currently in Tab 5 that do not fall into either of these two categories shall be moved to Tab 7. The TMDLs residing in Tab 7 are not included in this task order.

For load-based nutrient TMDLs in this task order, emphasis is placed on the method of determining the total nutrient load as well as the resulting load allocations and wasteload allocations. This includes the analytical approach, such as, stressor-identification, cause-and-effect linkage analysis, load duration curves, model used and any other analyses.

If the TMDL used one or more response indicators³ as the target, the concentration of each response WQ criterion or target shall be recorded.

For all the TMDLs listed, information pertaining to the listing cause is now required and shall be added in the appropriate Tab. The contractor shall include the following data in the workbook for load-based TMDLs:

ATTAINS ID, Waterbody ID, Waterbody Name, Listing Cause, Pollutant, State, Waterbody Type, Response Indicator-1, RI-1 WQC or WQT (conc.), Response Indicator-2, RI-2 WQC or WQT (conc.), Method of Calculating Load, Selected Analyses, Model Used, Total WLA and LA, Total LC, and Load Units.

2.0 Data Analysis

The contractor shall determine if there are any significant associations, patterns, or trends of total loads capacity associated with the following parameters: state, waterbody type, pollutant (N or P), response indicator, method and other feasible parameter identified by the contractor or as directed by the TOCOR.

E. DELIVERABLES. The contractor shall prepare and submit an interim report 3 months from the date of Task order award. The interim report shall consist of progress to date and any preliminary observation/analysis of the data.

³ A **response indicator** is any parameter or metric that reflects a chemical, physical, or biological response of a waterbody itself, organisms living in or directly dependent on that waterbody, or humans who use the waterbody. Nutrient-related response indicators often used as a basis for nutrient 303(d) listing include: chlorophyll-a, trophic state index (TSI), dissolved oxygen, turbidity/clarity, pH, and impaired biota.

The final report, due within 6 months of contract award, shall consist of a narrative report, the revised excel workbook and applicable graphs, charts, or tables. The final report shall be transmitted to the TOCOR via e-mail or other electronic form as requested by the TOCOR. All electronic deliverables must be in a format that can be supported by EPA.

Deliverable	Schedule	
Interim Report	December 12, 2014	
Draft Final Report	March 6, 2015	
Revised Final Report and Updated Excel Workbook	May 1, 2015	

Problems, concerns, questions, including QA issues, during the performance period must be conveyed to the TOCOR immediately (within 24 hours) upon discovery.

F. SOURCES.

- 1. ATTAINS database. http://www.epa.gov/waters/ir/
- 2. Excel workbook (dated 4/26/2013). Available from TOCOR upon request.

G. PROGRESS REPORTS AND INVOICES

<u>Records.</u> The contractor shall maintain the file-of-record of all documentation, including raw data, telephone contacts, and sources of information used in the performance of this task order.

<u>Progress Reports</u>. The contractor shall prepare and provide the TOM with written reports of progress on a monthly basis. Monthly progress reports will include, but not be limited to, the following items:

- ✓ a description of progress on all activities;
- ✓ a description of all QA activities performed during the performance period.
- ✓ a description of unanticipated problems encountered;
- ✓ a description of any lessons learned in completing progress under the agreement.

The contractor shall provide the written Progress Reports to the TOCOR by email.

<u>Invoices.</u> An invoice shall be submitted at the conclusion of the effort for the FFP established at the Task order award. A copy of the invoice must be sent to the TOCOR.

H. TRAVEL. None

I. CONTRACTOR IDENTIFICATION.

Contractor personnel shall always identify themselves as contractor employees, on the phone or in person, by name and organization. Contractor personnel are prohibited from acting as the Agency's representative. The contractor shall refer any questions relating to the interpretation of EPA's policy or regulation to the contract level COR or TOCOR.

K. Attachment: QAPP dated Sept. 19, 2012

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